

**IN THE CLAIMS**

1-138. (Canceled)

139. (Currently Amended) A smart card comprising:

a memory for storing information;

at least one transmitting or receiving antenna, suitable for transmitting or receiving acoustic signals; and

a low frequency circuit, adapted to handle transmission of information from the memory, or reception of information for storage in the memory, via said antenna on an acoustic carrier, ~~which~~ wherein said information is modulated on the acoustic carrier at a frequency of between 5 kHz and 100 kHz.

140. (Previously Presented) A smart card according to claim 139, wherein said at least one antenna comprises an individual transmission antenna.

141. (Previously Presented) A smart card according to claim 139, wherein said at least one antenna comprises an individual reception antenna.

142. (Previously Presented) A smart card according to claim 139, wherein said at least one antenna comprises a combined antenna for both reception and transmission.

143. (Previously Presented) A smart card according to claim 139, wherein said at least one antenna comprises an array antenna.

144. (Previously Presented) A smart card according to claim 154, wherein said at least one antenna comprises an acoustic antenna.

145. (Previously Presented) A smart card according to claim 154, wherein said at least one antenna comprises an RF antenna.

146. (Previously Presented) A smart card according to claim 139, comprising a processor for processing said information.

147. (Previously Presented) A smart card according to claim 146, wherein said processor generates a response to an interrogation of said smart card.

148. (Previously Presented) A smart card according to claim 146, wherein said memory comprises a long-term memory.

149. (Previously Presented) A smart card according to claim 146, wherein said memory comprises a temporary memory for said processor.

150. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is less than 80 kHz.

151. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is less than 60 kHz.

152. (Previously Presented) A smart card according to claim 293, wherein said carrier frequency is less than 50 kHz.

153. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is less than 40 kHz.

154. (Currently Amended) A smart card, comprising:

a memory for storing information;

at least one transmitting or receiving acoustic antenna; and

a low frequency circuit, for handling information associated with said antenna and said memory, wherein said ~~which~~ information is modulated on an acoustic carrier frequency of between 5 kHz and 30 kHz.

155. (Previously Presented) A smart card according to claim 154, wherein said carrier frequency is less than 25 kHz.

156. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency

is less than 21 kHz.

157. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is over 10 kHz.

158. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is over 14 kHz.

159. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is over 16 kHz.

160. (Previously Presented) A smart card according to claim 139, wherein said carrier frequency is over 17 kHz.

161. (Previously Presented) A smart card according to claim 139, wherein said at least one antenna comprises a piezoelectric antenna.

162. (Previously Presented) A smart card according to claim 139, comprising a high-frequency circuit for modulating information on a carrier frequency higher than 200 kHz.

163. (Previously Presented) A smart card according to claim 139, comprising a high-frequency circuit for modulating information on a carrier frequency higher than 1 MHz.

164. (Previously Presented) A smart card according to claim 162, wherein said high frequency circuit comprises an RF circuit.

165. (Previously Presented) A smart card according to claim 139, comprising a high frequency circuit adapted to demodulate information from a carrier frequency higher than 200 kHz.

166. (Previously Presented) A smart card according to claim 139, wherein said smart card implements a two-way communication protocol.

167. (Previously Presented) A smart card according to claim 166, wherein said protocol

comprises an error correction protocol.

168-189. (Canceled)

190. (Withdrawn) A smart card according to claim 139, comprising:

a biometric data acquisition circuit, for acquiring biometric data, wherein said biometric data acquisition circuit shares an input transducer with said low frequency circuit.

191. (Canceled)

192. (Withdrawn) A smart card according to claim 190, wherein said biometric data acquisition circuit comprises a voice input circuit.

193. (Withdrawn) A smart card according to claim 190, wherein said biometric data acquisition circuit comprises a motion determination circuit.

194. (Withdrawn) A smart card according to claim 193, wherein said biometric data comprises motion of the smart card in the form of a gesture.

195. (Withdrawn) A smart card according to claim 193, wherein said biometric data comprises motion of the smart card in the form of handwriting.

196. (Withdrawn, Currently Amended) A smart card according to claim 190, comprising a processor for evaluating said biometric data against a sample of biometric data.

197. (Withdrawn) A smart card according to claim 196, wherein said sample of biometric data is stored in said memory.

198. (Withdrawn, Currently Amended) A smart card according to claim 190, wherein said acquired biometric data is stored in said memory.

199-202 (Canceled)

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203. (Withdrawn) A smart card according to claim 190, comprising an array of pressure detectors for determining spatial positions of pressure changes on said array.
204. (Withdrawn) A smart card according to claim 203, wherein said array of detectors comprises a surface acoustic wave (SAW) detector.
205. (Withdrawn) A smart card according to claim 203, wherein said array of detectors comprises an array of individually electrified piezoelectric elements.
- 206-276. (Canceled)
277. (Previously Presented) A smart card according to claim 139, wherein said antenna radiates or receives far-field radiation.
278. (Previously Presented) A smart card according to claim 139, wherein said card transmits information without a carrier wave.
279. (Canceled)
280. (Previously presented) A smart card according to claim 154, wherein said at least one antenna comprises at least one transmission antenna and at least one separate reception antenna.
281. (Previously Presented) A smart card according to claim 154, wherein said at least one antenna comprises a piezoelectric antenna.
282. (Previously Presented) A smart card according to claim 154, comprising a high-frequency circuit for modulating information on a carrier frequency higher than 200 kHz.
283. (Currently Amended) A smart card, comprising:
- a memory for storing information;
  - at least one transmitting or receiving piezoelectric antenna; and
  - a low frequency circuit, adapted for transmission of acoustic signals through the piezoelectric antenna, and for handling information associated with said antenna and said

memory, ~~wherein said~~ which information is modulated on an acoustic carrier frequency of between 5 kHz and 100 kHz.

284. (Previously Presented) A smart card according to claim 283, wherein said at least one antenna comprises at least one transmission antenna and at least one separate reception antenna.

285. (Canceled)

286. (Previously Presented) A smart card according to claim 283, comprising a processor for processing said information and wherein the memory comprises a temporary memory for said processor.

287. (Previously Presented) A smart card according to claim 283, comprising a high-frequency circuit for modulating information on a carrier frequency higher than 200 kHz.

288. (Currently Amended) A smart card, comprising:

a memory for storing information;

at least one transmitting or receiving acoustic antenna;

a low frequency circuit, for handling information associated with said antenna and said memory, ~~wherein said~~ which information is modulated on a carrier frequency of between 5 kHz and 100 kHz; and

a high frequency circuit, for handling information associated with said antenna and said memory, ~~wherein said~~ which information is modulated on a carrier frequency higher than 1 MHz.

289. (Previously Presented) A smart card according to claim 288, wherein said at least one antenna comprises at least one transmission antenna and at least one separate reception antenna.

290. (Canceled)

291. (Previously Presented) A smart card according to claim 288, comprising a processor for processing said information and wherein the memory comprises a temporary memory for said processor.

292. (Canceled)

293. (Currently Amended) A smart card, comprising:

a memory for storing information;

at least one receiving acoustic antenna; and

a low frequency circuit, for handling information transmitted to the at least one receiving antenna, wherein ~~said~~ ~~which~~ information is modulated on an acoustic carrier frequency of between 5 kHz and 100 kHz.

294. (Previously Presented) A smart card according to claim 293, wherein said carrier frequency is less than 25 kHz.

295. (Previously Presented) A smart card according to claim 293, wherein said carrier frequency is about one of 22kHz, 24kHz, 32 kHz, 44 kHz or 48kHz.

296-299. (Canceled)